

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331782

Luminaire Tested: **S122RDIW-S290D1440U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331782
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D1440U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6132.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

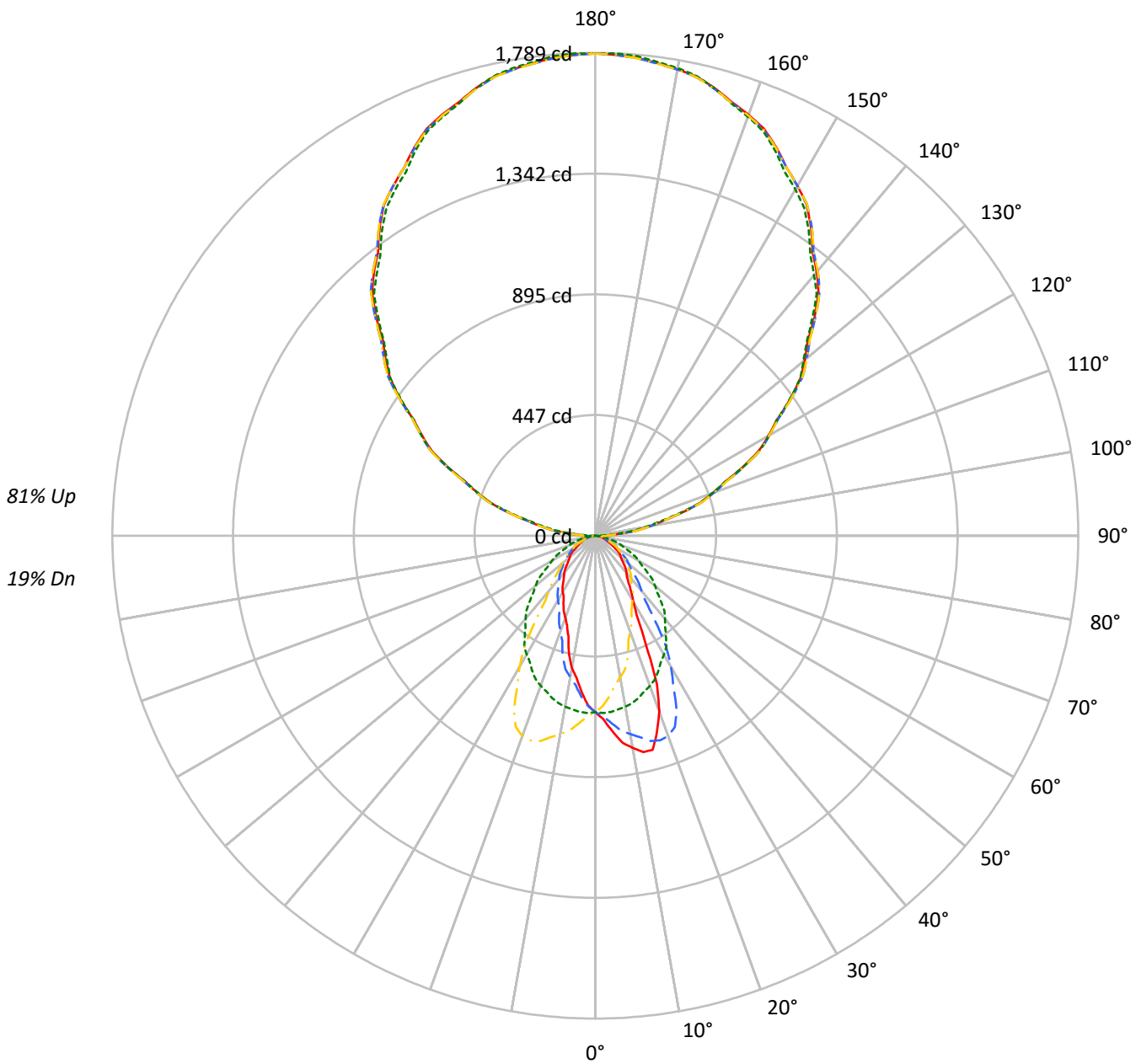
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19				
1	91	87	83	80	80	77	74	71	58	56	54	40	39	38	24	24	23	16				
2	83	76	71	66	73	67	63	59	51	48	45	36	34	32	22	21	20	14				
3	76	67	60	55	67	60	54	49	45	41	38	32	30	28	20	18	17	12				
4	69	60	52	47	61	53	47	42	40	36	33	29	26	24	18	16	15	11				
5	64	53	45	40	56	47	41	36	36	32	28	26	23	21	16	15	14	10				
6	59	47	40	35	52	42	36	31	32	28	25	23	20	18	15	13	12	9				
7	54	43	35	30	48	38	32	27	29	25	22	21	18	16	13	12	11	8				
8	50	39	32	27	44	35	28	24	27	22	19	19	17	14	12	11	10	7				
9	47	35	28	24	41	32	26	21	24	20	17	18	15	13	12	10	9	6				
10	43	32	25	21	38	29	23	19	22	18	15	16	14	12	11	9	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10555	10555	10555	10555
5°	11788	10621	9418	10621
10°	13080	10547	8163	10547
15°	13722	10392	6432	10392
20°	11897	10163	5565	10163
25°	7801	9850	4969	9850
30°	5252	9469	4497	9469
35°	4254	8990	4056	8990
40°	3781	8469	3754	8469
45°	3423	7857	3350	7857
50°	3115	7252	3105	7252
55°	2928	6579	2891	6579
60°	2451	5964	2422	5964
65°	2067	5414	2342	5414
70°	1907	4834	2209	4834
75°	1784	4211	2040	4211
80°	1646	3468	1813	3468
85°	1519	2742	1593	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.0
10°-20°	172.7	2.8
20°-30°	222.5	3.6
30°-40°	211.5	3.4
40°-50°	181.1	3.0
50°-60°	137.9	2.2
60°-70°	87.2	1.4
70°-80°	43.5	0.7
80°-90°	18.5	0.3
90°-100°	113.2	1.8
100°-110°	351.6	5.7
110°-120°	601.0	9.8
120°-130°	790.3	12.9
130°-140°	887.0	14.5
140°-150°	869.7	14.2
150°-160°	729.5	11.9
160°-170°	483.8	7.9
170°-180°	169.1	2.8
0°-30°	457.2	7.5
0°-40°	668.6	10.9
0°-60°	987.7	16.1
0°-90°	1136.9	18.5
90°-120°	1065.7	17.4
90°-150°	3612.8	58.9
90°-180°	4995.0	81.5
0°-180°	6132.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	654	654	654	654	654	
5°	727	655	581	655	727	72
15°	821	622	385	622	821	221
25°	438	553	279	553	438	208
35°	216	456	206	456	216	138
45°	150	344	147	344	150	116
55°	104	234	103	234	104	91
65°	54	142	61	142	54	55
75°	29	68	33	68	29	30
85°	8	15	9	15	8	10
90°	51	2	51	2	51	23
95°	94	78	94	78	94	104
105°	335	324	335	324	335	352
115°	603	603	603	603	603	596
125°	880	877	880	877	880	785
135°	1149	1135	1149	1135	1149	884
145°	1393	1378	1393	1378	1393	870
155°	1588	1575	1588	1575	1588	731
165°	1716	1714	1716	1714	1716	484
175°	1777	1783	1777	1783	1777	169
180°	1786	1786	1786	1786	1786	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	680.3	680.8	681.4	680.1	680.1	679.0	676.6	674.8	669.7	669.0	669.0
5°	727.3	726.9	727.8	724.8	720.8	719.8	715.5	709.8	703.9	697.4	696.0
7.5°	774.1	773.4	771.6	771.1	768.0	761.1	754.2	746.8	737.0	727.4	722.6
10°	797.8	805.3	800.7	792.8	794.3	783.7	778.0	768.2	760.0	745.7	742.6
12.5°	821.0	824.0	822.5	818.0	816.0	808.6	800.9	792.4	777.3	764.5	753.3
15°	820.9	825.2	826.4	825.0	826.1	825.7	821.6	814.6	801.4	787.3	775.0
17.5°	760.3	763.3	770.8	775.8	782.2	795.6	802.3	804.8	802.9	794.8	786.2
20°	692.4	687.4	708.3	718.9	728.0	750.7	770.3	777.8	789.8	789.6	787.3
22.5°	596.0	597.2	617.0	629.7	656.2	679.0	701.2	729.4	752.7	768.1	777.1
25°	437.9	446.6	466.3	483.6	513.1	555.4	593.8	638.3	680.3	713.5	745.1
27.5°	328.9	329.6	345.2	361.2	378.7	413.3	461.7	514.8	574.7	624.2	681.0
30°	281.7	280.3	286.9	296.7	311.7	338.5	374.8	427.0	486.8	561.3	627.6
32.5°	248.2	248.3	253.3	260.5	272.9	291.0	315.9	358.4	414.8	488.1	565.8
35°	215.8	215.6	219.2	224.4	229.6	241.2	258.3	280.5	319.4	387.7	467.2
37.5°	192.5	193.5	195.3	198.6	204.3	210.8	221.0	236.0	263.6	304.1	370.9
40°	179.4	179.9	182.4	185.1	188.5	193.5	201.9	214.0	234.2	266.4	315.3
42.5°	167.5	167.9	169.7	172.2	174.9	179.9	186.9	197.3	213.7	238.8	279.1
45°	149.9	149.9	151.5	152.6	155.6	160.1	165.8	174.5	185.8	204.4	231.2
47.5°	133.5	133.5	134.6	136.5	138.4	141.9	147.5	154.6	162.8	177.2	200.1
50°	124.0	124.3	124.9	126.5	127.7	130.8	135.2	141.3	149.9	161.1	180.1
52.5°	116.4	116.3	117.1	117.8	118.6	120.8	124.1	129.5	137.2	146.9	162.7
55°	104.0	103.1	104.5	105.6	106.3	107.2	109.0	112.4	119.0	127.2	139.0
57.5°	88.6	88.2	89.2	90.2	92.4	94.8	96.4	98.5	101.9	107.8	119.5
60°	75.9	75.9	77.9	78.6	81.1	84.3	87.5	89.3	92.7	96.5	105.2
62.5°	64.6	64.8	65.7	66.4	67.8	71.7	76.2	80.2	83.4	87.1	92.8
65°	54.1	54.5	54.5	55.0	55.9	56.8	58.6	61.8	67.5	72.7	77.0
67.5°	45.9	46.0	46.2	46.6	46.8	47.8	48.6	50.0	51.3	56.2	61.6
70°	40.4	41.1	40.9	41.3	41.6	42.0	42.9	43.6	45.7	46.8	50.0
72.5°	35.3	35.8	35.8	36.1	36.7	36.8	37.5	38.2	39.5	40.4	42.2
75°	28.6	28.4	28.6	29.1	29.3	29.5	29.5	30.4	31.1	32.0	33.2
77.5°	22.1	22.3	22.3	22.3	22.4	22.8	22.7	23.1	23.8	24.3	24.8
80°	17.7	17.9	17.7	17.9	18.2	18.4	18.2	18.4	19.1	19.5	19.5
82.5°	13.7	13.8	13.9	13.9	14.0	14.0	14.4	14.4	14.9	14.8	15.0
85°	8.2	8.0	8.0	8.0	8.2	8.4	8.2	8.2	8.4	8.4	8.4
87.5°	13.2	13.3	13.2	13.1	13.1	13.1	13.2	13.6	13.5	13.8	12.2
90°	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4	52.1	52.8	45.4
92.5°	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2	48.1	47.9	46.2
95°	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5	96.5	96.5	95.8
97.5°	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2	162.2	162.2	160.9
100°	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0	208.0	208.0	207.0
102.5°	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0	257.8	257.5	256.2
105°	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0	332.3	331.7	331.0
107.5°	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9	413.6	413.4	413.4
110°	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9	468.9	468.9	468.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9	524.7	525.5	525.8
115°	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4	608.7	609.1	609.7
117.5°	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1	690.9	691.7	693.5
120°	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7	744.7	744.7	747.4
122.5°	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0	801.8	802.6	804.5
125°	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4	885.4	886.4	887.5
127.5°	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4	966.6	967.9	969.1
130°	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8	1021.5	1022.1	1022.8
132.5°	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7	1076.1	1077.6	1077.5
135°	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1	1154.5	1154.8	1154.1
137.5°	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2	1230.5	1230.8	1229.9
140°	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4	1281.4	1281.4	1279.8
142.5°	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8	1327.5	1327.3	1326.1
145°	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2	1397.8	1397.5	1395.5
147.5°	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9	1459.2	1458.4	1457.1
150°	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0	1495.7
152.5°	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6	1534.0
155°	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8	1586.1	1584.4	1583.4
157.5°	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6	1631.3	1629.1	1628.5
160°	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8	1658.8	1656.8	1656.5
162.5°	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5	1683.2	1680.9	1680.6
165°	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3	1714.9	1712.6	1712.6
167.5°	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5	1741.2	1738.8	1738.9
170°	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0	1755.6	1753.3	1753.6
172.5°	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8	1766.5	1764.1	1764.5
175°	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6	1778.3	1775.9	1776.6
177.5°	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8	1783.4
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	669.4	667.9	666.6	663.4	661.7	658.1	657.6	657.4	652.7	648.1	646.8
5°	692.4	688.7	683.3	676.9	670.3	663.5	659.0	655.3	646.2	637.6	632.6
7.5°	715.5	707.7	698.3	686.3	676.2	665.0	656.6	649.1	636.2	623.8	615.5
10°	732.8	720.1	707.6	691.0	678.0	665.3	653.5	643.3	628.8	612.4	600.8
12.5°	743.5	729.5	712.3	696.1	679.3	663.1	647.3	634.2	617.1	600.2	586.5
15°	758.0	743.0	722.1	698.9	677.4	656.2	638.1	621.7	599.5	579.2	562.4
17.5°	769.9	749.2	726.8	700.0	675.0	648.2	624.8	603.9	579.1	554.7	534.9
20°	773.7	753.2	727.3	700.5	671.0	639.4	614.2	591.5	564.9	538.3	515.6
22.5°	771.3	755.4	726.6	694.5	664.3	631.3	602.8	576.4	546.9	519.8	493.5
25°	755.3	749.8	722.6	687.6	653.1	614.7	581.7	552.9	519.3	490.2	461.6
27.5°	717.9	729.7	712.8	675.5	637.1	596.0	558.9	526.1	491.2	458.5	430.0
30°	681.9	708.9	701.7	667.1	624.2	583.8	542.2	507.9	470.7	437.0	408.9
32.5°	632.7	677.3	684.4	655.5	611.1	566.7	523.1	489.0	450.1	414.7	387.2
35°	554.2	621.0	651.7	633.3	588.8	540.8	495.9	456.1	417.0	382.1	354.8
37.5°	460.7	551.7	602.8	604.1	563.2	513.4	464.4	424.9	384.9	350.6	321.1
40°	400.0	498.6	565.2	579.9	545.4	491.6	442.0	401.8	362.8	329.1	295.3
42.5°	345.5	443.7	525.5	551.2	523.8	470.3	420.6	378.6	340.6	308.8	274.2
45°	279.4	365.3	455.4	501.3	486.1	436.6	384.1	344.1	308.5	281.0	247.8
47.5°	235.7	296.2	383.5	445.5	445.3	400.1	348.4	310.2	277.1	251.3	224.5
50°	210.8	263.5	337.3	407.7	413.6	375.7	326.6	288.7	257.8	230.8	209.2
52.5°	188.4	231.9	298.2	365.8	382.6	349.7	302.1	267.1	237.1	212.2	193.8
55°	159.2	192.9	243.3	306.4	331.9	308.7	266.4	233.7	209.4	188.5	172.6
57.5°	134.7	159.9	200.4	251.2	280.8	266.3	231.4	204.8	184.0	165.1	152.6
60°	119.3	139.9	174.2	216.7	249.4	239.2	209.4	184.7	167.0	150.6	138.8
62.5°	104.7	122.5	151.9	186.4	216.3	212.1	187.8	167.0	151.5	136.6	126.6
65°	84.3	97.2	120.2	147.2	171.3	173.3	155.8	141.7	127.9	116.1	107.2
67.5°	67.1	75.6	91.7	114.5	132.5	139.0	128.3	117.5	106.5	97.4	89.7
70°	56.6	63.4	75.2	93.6	110.2	117.0	110.8	102.4	92.9	85.4	78.8
72.5°	45.8	52.5	61.2	74.7	88.9	96.3	94.1	88.1	80.4	74.1	67.9
75°	34.5	36.6	42.5	51.6	62.7	69.1	70.6	67.5	61.3	56.6	52.9
77.5°	25.5	26.8	29.6	34.3	41.6	47.3	49.6	49.2	45.0	42.3	38.8
80°	20.4	21.1	22.5	24.5	30.0	35.7	37.3	37.3	34.3	33.2	29.8
82.5°	15.5	16.0	16.9	18.0	20.5	25.5	27.3	27.6	25.8	24.3	21.6
85°	8.9	8.6	9.1	9.8	10.2	11.6	14.3	14.8	14.3	12.5	11.8
87.5°	10.7	9.4	7.9	6.6	6.0	5.4	5.5	5.6	5.6	5.9	6.3
90°	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5	5.5	9.5	13.6
92.5°	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8	29.8	32.7	35.7
95°	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4	81.7	85.1	88.4
97.5°	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2	146.2	149.1	152.1
100°	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5	194.1	196.8	199.5
102.5°	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1	244.3	246.4	248.5
105°	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1	325.1	326.1	327.1
107.5°	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7	408.2	409.7	411.2
110°	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8	461.8	463.8	465.8



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7	519.7	521.7	523.7
115°	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0	605.0	607.0	609.1
117.5°	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1	690.7	693.4	696.1
120°	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	747.4	750.1	752.8
122.5°	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6	799.8	803.0	806.2
125°	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4	880.4	883.4	886.4
127.5°	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1	959.9	963.7	967.6
130°	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5	1009.9	1014.3	1018.6
132.5°	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0	1064.6	1068.1	1071.7
135°	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2	1138.9	1142.6	1146.2
137.5°	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3	1216.3	1219.3	1222.3
140°	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3	1263.3	1266.4	1269.4
142.5°	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6	1311.6	1314.6	1317.6
145°	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9	1380.3	1382.6	1384.9
147.5°	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7	1442.5	1445.3	1448.2
150°	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9	1483.9	1486.0	1488.0
152.5°	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3	1521.3	1523.3	1525.3
155°	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4	1576.4	1577.4	1578.4
157.5°	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3	1624.0	1624.7	1625.4
160°	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3	1653.0	1653.6	1654.3
162.5°	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8	1679.0	1679.1	1679.2
165°	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1	1713.8	1713.4	1713.1
167.5°	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6	1742.6	1741.6	1740.6
170°	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3	1758.3	1757.3	1756.3
172.5°	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2	1769.2	1768.2	1767.2
175°	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4	1782.4	1781.4	1780.4
177.5°	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9	1788.1	1787.3	1786.5
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	644.5	643.2	640.8	637.2	635.0	631.2	628.7	630.1	630.5	630.1	629.8
5°	627.2	622.4	615.8	609.4	603.5	597.2	593.5	592.0	588.8	587.0	586.0
7.5°	606.2	598.0	588.7	577.6	568.2	558.3	553.3	550.8	544.3	540.8	537.7
10°	590.6	577.6	568.3	553.8	544.9	532.0	523.1	523.4	514.5	509.5	505.9
12.5°	573.3	559.1	543.6	530.5	518.2	507.8	497.1	492.8	483.4	478.6	468.8
15°	544.7	528.1	511.8	494.1	481.6	465.4	450.0	431.1	415.9	402.7	399.1
17.5°	513.5	492.9	476.5	455.7	434.3	407.2	389.3	378.3	369.2	362.2	357.0
20°	492.0	471.1	453.6	422.3	393.4	375.0	361.9	353.4	343.9	336.4	332.3
22.5°	469.5	447.7	423.8	388.8	366.3	351.6	339.9	330.2	323.7	317.9	314.1
25°	437.5	413.6	374.3	350.3	332.1	316.6	308.5	302.6	295.8	287.8	284.2
27.5°	403.7	365.8	337.5	319.6	302.3	292.3	284.9	276.1	270.0	266.4	262.6
30°	378.4	340.5	318.5	298.9	286.7	275.5	266.9	261.9	256.0	249.9	247.4
32.5°	350.3	320.0	298.8	282.6	270.1	260.6	253.8	245.7	241.5	237.7	232.5
35°	315.3	292.3	273.0	259.9	248.0	240.3	232.4	227.6	219.9	216.7	214.7
37.5°	285.7	265.8	251.4	237.5	228.1	219.6	214.7	207.1	203.8	199.3	195.0
40°	268.9	249.4	235.6	224.2	213.7	207.4	201.3	195.1	190.1	188.1	182.9
42.5°	251.9	236.0	222.1	209.7	202.7	195.9	188.2	183.7	178.5	175.2	172.0
45°	228.3	214.2	202.4	192.2	184.4	177.4	172.4	164.9	162.0	155.4	152.6
47.5°	207.6	194.5	183.2	173.5	166.0	161.4	154.1	148.2	143.5	139.4	135.9
50°	192.9	181.9	171.0	162.4	155.6	149.0	141.5	138.6	131.3	129.2	127.2
52.5°	179.4	169.0	159.1	150.6	143.8	137.4	130.8	126.9	122.0	120.0	118.5
55°	160.6	150.6	141.1	133.6	126.8	120.2	116.1	111.3	109.0	107.4	105.6
57.5°	141.7	132.7	125.4	117.8	110.9	105.7	101.0	98.1	95.8	93.7	91.5
60°	129.7	121.1	114.5	107.4	100.4	96.1	92.5	89.0	86.3	83.1	82.2
62.5°	117.0	109.4	103.4	96.5	90.4	86.5	83.0	79.8	76.5	71.9	70.6
65°	99.5	93.6	87.2	81.5	76.1	72.2	67.2	63.6	62.2	61.8	61.6
67.5°	83.7	78.1	72.6	66.8	61.9	58.3	55.7	55.2	54.2	54.0	53.3
70°	73.1	67.9	62.5	57.0	52.2	51.6	50.7	49.7	48.6	48.2	47.7
72.5°	63.7	58.3	52.8	48.5	46.4	45.6	44.7	43.7	43.0	42.5	42.3
75°	48.8	43.8	40.2	38.6	37.5	36.8	35.4	34.8	34.3	33.6	33.4
77.5°	35.2	32.3	30.7	29.7	28.5	27.8	27.0	26.3	25.8	25.7	25.3
80°	26.8	25.4	24.3	22.9	22.5	21.6	21.4	20.7	20.9	20.2	20.2
82.5°	20.8	19.1	18.1	17.5	17.0	16.3	16.1	15.8	15.8	15.3	15.3
85°	10.7	10.2	9.8	9.3	9.3	8.6	8.9	8.6	8.6	8.2	8.0
87.5°	7.0	7.9	9.0	10.5	12.0	13.3	13.1	12.8	12.7	12.6	12.3
90°	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4	50.8	50.1	49.9
92.5°	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2	48.3	48.5	48.6
95°	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5	96.5	96.5	96.1
97.5°	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2	162.2	162.2	162.2
100°	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0	208.0	208.0	207.9
102.5°	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0	258.3	258.6	258.5
105°	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0	333.7	334.3	334.7
107.5°	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9	414.2	414.4	413.8
110°	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.3



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9	523.1	522.3	521.5
115°	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4	608.0	607.7	607.0
117.5°	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1	689.3	688.5	687.5
120°	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7	744.7	744.7	744.2
122.5°	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0	800.2	799.4	798.6
125°	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4	883.4	882.4	881.8
127.5°	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4	964.2	963.0	961.9
130°	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8	1020.1	1019.4	1018.4
132.5°	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7	1073.2	1071.7	1070.4
135°	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1	1153.8	1153.5	1152.8
137.5°	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2	1230.0	1229.7	1228.9
140°	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4	1281.4	1281.4	1280.8
142.5°	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8	1328.1	1328.3	1327.8
145°	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2	1398.5	1398.8	1398.3
147.5°	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9	1460.6	1461.4	1461.1
150°	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0
152.5°	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7
155°	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8	1589.5	1591.1	1591.5
157.5°	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6	1635.9	1638.2	1638.5
160°	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8	1662.8	1664.8	1665.2
162.5°	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5	1687.8	1690.0	1690.4
165°	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3	1719.6	1722.0	1722.3
167.5°	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5	1745.9	1748.2	1748.5
170°	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0	1760.3	1762.7	1762.8
172.5°	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8	1771.2	1773.5	1773.7
175°	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6	1782.9	1785.3	1785.5
177.5°	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	627.8	628.1	627.6	627.9	627.6	628.1	627.8	629.8	630.1	630.5	630.1
5°	584.9	582.2	581.7	581.1	581.7	582.2	584.9	586.0	587.0	588.8	592.0
7.5°	533.8	533.4	532.2	530.6	532.2	533.4	533.8	537.7	540.8	544.3	550.8
10°	500.9	499.7	499.5	497.9	499.5	499.7	500.9	505.9	509.5	514.5	523.4
12.5°	462.3	455.0	454.3	450.3	454.3	455.0	462.3	468.8	478.6	483.4	492.8
15°	393.7	392.3	387.7	384.8	387.7	392.3	393.7	399.1	402.7	415.9	431.1
17.5°	354.4	349.9	348.5	347.9	348.5	349.9	354.4	357.0	362.2	369.2	378.3
20°	329.1	325.1	324.4	323.9	324.4	325.1	329.1	332.3	336.4	343.9	353.4
22.5°	311.7	307.4	305.7	304.3	305.7	307.4	311.7	314.1	317.9	323.7	330.2
25°	281.9	280.3	279.4	278.9	279.4	280.3	281.9	284.2	287.8	295.8	302.6
27.5°	258.6	255.1	254.4	253.2	254.4	255.1	258.6	262.6	266.4	270.0	276.1
30°	245.3	244.2	242.6	241.2	242.6	244.2	245.3	247.4	249.9	256.0	261.9
32.5°	229.7	228.7	227.3	226.7	227.3	228.7	229.7	232.5	237.7	241.5	245.7
35°	212.4	209.2	207.8	205.8	207.8	209.2	212.4	214.7	216.7	219.9	227.6
37.5°	194.1	192.4	190.5	191.2	190.5	192.4	194.1	195.0	199.3	203.8	207.1
40°	179.9	178.8	178.3	178.1	178.3	178.8	179.9	182.9	188.1	190.1	195.1
42.5°	168.6	165.5	164.3	164.3	164.3	165.5	168.6	172.0	175.2	178.5	183.7
45°	151.5	148.6	146.5	146.7	146.5	148.6	151.5	152.6	155.4	162.0	164.9
47.5°	134.0	133.9	132.6	133.0	132.6	133.9	134.0	135.9	139.4	143.5	148.2
50°	125.6	124.3	123.3	123.6	123.3	124.3	125.6	127.2	129.2	131.3	138.6
52.5°	117.6	116.4	115.7	116.7	115.7	116.4	117.6	118.5	120.0	122.0	126.9
55°	104.5	103.1	102.9	102.7	102.9	103.1	104.5	105.6	107.4	109.0	111.3
57.5°	89.8	88.9	87.5	87.0	87.5	88.9	89.8	91.5	93.7	95.8	98.1
60°	79.3	77.5	75.2	75.0	75.2	77.5	79.3	82.2	83.1	86.3	89.0
62.5°	69.6	69.3	68.8	68.8	68.8	69.3	69.6	70.6	71.9	76.5	79.8
65°	61.1	60.9	61.1	61.3	61.1	60.9	61.1	61.6	61.8	62.2	63.6
67.5°	53.2	52.8	52.4	52.6	52.4	52.8	53.2	53.3	54.0	54.2	55.2
70°	47.2	47.0	46.8	46.8	46.8	47.0	47.2	47.7	48.2	48.6	49.7
72.5°	41.4	41.4	41.2	41.0	41.2	41.4	41.4	42.3	42.5	43.0	43.7
75°	33.2	32.7	32.7	32.7	32.7	32.7	33.2	33.4	33.6	34.3	34.8
77.5°	25.3	25.0	24.8	24.6	24.8	25.0	25.3	25.3	25.7	25.8	26.3
80°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.2	20.2	20.9	20.7
82.5°	15.3	15.0	15.0	14.8	15.0	15.0	15.3	15.3	15.3	15.8	15.8
85°	8.2	8.4	8.2	8.6	8.2	8.4	8.2	8.0	8.2	8.6	8.6
87.5°	12.4	12.3	12.5	12.4	12.5	12.3	12.4	12.3	12.6	12.7	12.8
90°	50.3	50.6	50.9	51.3	50.9	50.6	50.3	49.9	50.1	50.8	51.4
92.5°	48.6	48.7	48.8	48.8	48.8	48.7	48.6	48.6	48.5	48.3	48.2
95°	95.5	94.8	94.1	93.5	94.1	94.8	95.5	96.1	96.5	96.5	96.5
97.5°	162.1	162.0	162.0	161.9	162.0	162.0	162.1	162.2	162.2	162.2	162.2
100°	207.5	207.2	206.9	206.5	206.9	207.2	207.5	207.9	208.0	208.0	208.0
102.5°	258.2	257.9	257.5	257.2	257.5	257.9	258.2	258.5	258.6	258.3	258.0
105°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.7	334.3	333.7	333.0
107.5°	412.3	410.7	409.2	407.6	409.2	410.7	412.3	413.8	414.4	414.2	413.9
110°	467.3	466.3	465.3	464.3	465.3	466.3	467.3	468.3	468.9	468.9	468.9



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	520.8	520.1	519.3	518.6	519.3	520.1	520.8	521.5	522.3	523.1	523.9
115°	606.0	605.0	604.0	603.0	604.0	605.0	606.0	607.0	607.7	608.0	608.4
117.5°	686.5	685.5	684.5	683.5	684.5	685.5	686.5	687.5	688.5	689.3	690.1
120°	743.2	742.2	741.2	740.2	741.2	742.2	743.2	744.2	744.7	744.7	744.7
122.5°	797.9	797.2	796.4	795.7	796.4	797.2	797.9	798.6	799.4	800.2	801.0
125°	881.4	881.1	880.8	880.4	880.8	881.1	881.4	881.8	882.4	883.4	884.4
127.5°	960.8	959.7	958.7	957.6	958.7	959.7	960.8	961.9	963.0	964.2	965.4
130°	1017.1	1015.8	1014.4	1013.1	1014.4	1015.8	1017.1	1018.4	1019.4	1020.1	1020.8
132.5°	1069.4	1068.3	1067.2	1066.1	1067.2	1068.3	1069.4	1070.4	1071.7	1073.2	1074.7
135°	1151.8	1150.8	1149.8	1148.8	1149.8	1150.8	1151.8	1152.8	1153.5	1153.8	1154.1
137.5°	1227.6	1226.2	1224.9	1223.5	1224.9	1226.2	1227.6	1228.9	1229.7	1230.0	1230.2
140°	1279.4	1278.1	1276.7	1275.4	1276.7	1278.1	1279.4	1280.8	1281.4	1281.4	1281.4
142.5°	1326.5	1325.1	1323.8	1322.4	1323.8	1325.1	1326.5	1327.8	1328.3	1328.1	1327.8
145°	1397.0	1395.7	1394.3	1393.0	1394.3	1395.7	1397.0	1398.3	1398.8	1398.5	1398.2
147.5°	1459.8	1458.5	1457.3	1456.0	1457.3	1458.5	1459.8	1461.1	1461.4	1460.6	1459.9
150°	1500.0	1499.0	1498.0	1497.0	1498.0	1499.0	1500.0	1501.0	1501.0	1500.0	1499.0
152.5°	1539.4	1538.1	1536.9	1535.6	1536.9	1538.1	1539.4	1540.7	1540.7	1539.4	1538.1
155°	1590.5	1589.5	1588.5	1587.5	1588.5	1589.5	1590.5	1591.5	1591.1	1589.5	1587.8
157.5°	1636.9	1635.3	1633.7	1632.1	1633.7	1635.3	1636.9	1638.5	1638.2	1635.9	1633.6
160°	1663.8	1662.5	1661.2	1659.8	1661.2	1662.5	1663.8	1665.2	1664.8	1662.8	1660.8
162.5°	1688.8	1687.2	1685.6	1683.9	1685.6	1687.2	1688.8	1690.4	1690.0	1687.8	1685.5
165°	1720.6	1719.0	1717.3	1715.6	1717.3	1719.0	1720.6	1722.3	1722.0	1719.6	1717.3
167.5°	1746.8	1745.0	1743.3	1741.5	1743.3	1745.0	1746.8	1748.5	1748.2	1745.9	1743.5
170°	1760.8	1758.8	1756.8	1754.8	1756.8	1758.8	1760.8	1762.8	1762.7	1760.3	1758.0
172.5°	1771.7	1769.7	1767.7	1765.7	1767.7	1769.7	1771.7	1773.7	1773.5	1771.2	1768.8
175°	1783.4	1781.4	1779.4	1777.4	1779.4	1781.4	1783.4	1785.5	1785.3	1782.9	1780.6
177.5°	1787.7	1786.1	1784.4	1782.8	1784.4	1786.1	1787.7	1789.3	1789.3	1787.7	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331782

CATALOG NUMBER: S122RDIW-S290D1440U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	628.7	631.2	635.0	637.2	640.8	643.2	644.5	646.8	648.1	652.7	657.4
5°	593.5	597.2	603.5	609.4	615.8	622.4	627.2	632.6	637.6	646.2	655.3
7.5°	553.3	558.3	568.2	577.6	588.7	598.0	606.2	615.5	623.8	636.2	649.1
10°	523.1	532.0	544.9	553.8	568.3	577.6	590.6	600.8	612.4	628.8	643.3
12.5°	497.1	507.8	518.2	530.5	543.6	559.1	573.3	586.5	600.2	617.1	634.2
15°	450.0	465.4	481.6	494.1	511.8	528.1	544.7	562.4	579.2	599.5	621.7
17.5°	389.3	407.2	434.3	455.7	476.5	492.9	513.5	534.9	554.7	579.1	603.9
20°	361.9	375.0	393.4	422.3	453.6	471.1	492.0	515.6	538.3	564.9	591.5
22.5°	339.9	351.6	366.3	388.8	423.8	447.7	469.5	493.5	519.8	546.9	576.4
25°	308.5	316.6	332.1	350.3	374.3	413.6	437.5	461.6	490.2	519.3	552.9
27.5°	284.9	292.3	302.3	319.6	337.5	365.8	403.7	430.0	458.5	491.2	526.1
30°	266.9	275.5	286.7	298.9	318.5	340.5	378.4	408.9	437.0	470.7	507.9
32.5°	253.8	260.6	270.1	282.6	298.8	320.0	350.3	387.2	414.7	450.1	489.0
35°	232.4	240.3	248.0	259.9	273.0	292.3	315.3	354.8	382.1	417.0	456.1
37.5°	214.7	219.6	228.1	237.5	251.4	265.8	285.7	321.1	350.6	384.9	424.9
40°	201.3	207.4	213.7	224.2	235.6	249.4	268.9	295.3	329.1	362.8	401.8
42.5°	188.2	195.9	202.7	209.7	222.1	236.0	251.9	274.2	308.8	340.6	378.6
45°	172.4	177.4	184.4	192.2	202.4	214.2	228.3	247.8	281.0	308.5	344.1
47.5°	154.1	161.4	166.0	173.5	183.2	194.5	207.6	224.5	251.3	277.1	310.2
50°	141.5	149.0	155.6	162.4	171.0	181.9	192.9	209.2	230.8	257.8	288.7
52.5°	130.8	137.4	143.8	150.6	159.1	169.0	179.4	193.8	212.2	237.1	267.1
55°	116.1	120.2	126.8	133.6	141.1	150.6	160.6	172.6	188.5	209.4	233.7
57.5°	101.0	105.7	110.9	117.8	125.4	132.7	141.7	152.6	165.1	184.0	204.8
60°	92.5	96.1	100.4	107.4	114.5	121.1	129.7	138.8	150.6	167.0	184.7
62.5°	83.0	86.5	90.4	96.5	103.4	109.4	117.0	126.6	136.6	151.5	167.0
65°	67.2	72.2	76.1	81.5	87.2	93.6	99.5	107.2	116.1	127.9	141.7
67.5°	55.7	58.3	61.9	66.8	72.6	78.1	83.7	89.7	97.4	106.5	117.5
70°	50.7	51.6	52.2	57.0	62.5	67.9	73.1	78.8	85.4	92.9	102.4
72.5°	44.7	45.6	46.4	48.5	52.8	58.3	63.7	67.9	74.1	80.4	88.1
75°	35.4	36.8	37.5	38.6	40.2	43.8	48.8	52.9	56.6	61.3	67.5
77.5°	27.0	27.8	28.5	29.7	30.7	32.3	35.2	38.8	42.3	45.0	49.2
80°	21.4	21.6	22.5	22.9	24.3	25.4	26.8	29.8	33.2	34.3	37.3
82.5°	16.1	16.3	17.0	17.5	18.1	19.1	20.8	21.6	24.3	25.8	27.6
85°	8.9	8.6	9.3	9.3	9.8	10.2	10.7	11.8	12.5	14.3	14.8
87.5°	13.1	13.3	12.0	10.5	9.0	7.9	7.0	6.3	5.9	5.6	5.6
90°	52.1	52.8	45.4	38.0	30.7	23.3	17.6	13.6	9.5	5.5	1.5
92.5°	48.1	47.9	46.2	44.5	42.7	41.0	38.6	35.7	32.7	29.8	26.8
95°	96.5	96.5	95.8	95.1	94.5	93.8	91.8	88.4	85.1	81.7	78.4
97.5°	162.2	162.2	160.9	159.7	158.4	157.1	155.0	152.1	149.1	146.2	143.2
100°	208.0	208.0	207.0	206.0	205.0	204.0	202.2	199.5	196.8	194.1	191.5
102.5°	257.8	257.5	256.2	254.9	253.7	252.4	250.7	248.5	246.4	244.3	242.1
105°	332.3	331.7	331.0	330.3	329.7	329.0	328.1	327.1	326.1	325.1	324.1
107.5°	413.6	413.4	413.4	413.4	413.4	413.4	412.6	411.2	409.7	408.2	406.7
110°	468.9	468.9	468.9	468.9	468.9	468.9	467.8	465.8	463.8	461.8	459.8



TEST NUMBER: P331782

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	524.7	525.5	525.8	526.1	526.3	526.6	525.7	523.7	521.7	519.7	517.7
115°	608.7	609.1	609.7	610.4	611.1	611.7	611.1	609.1	607.0	605.0	603.0
117.5°	690.9	691.7	693.5	695.4	697.3	699.2	698.8	696.1	693.4	690.7	688.1
120°	744.7	744.7	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7
122.5°	801.8	802.6	804.5	806.4	808.3	810.1	809.5	806.2	803.0	799.8	796.6
125°	885.4	886.4	887.5	888.5	889.5	890.5	889.5	886.4	883.4	880.4	877.4
127.5°	966.6	967.9	969.1	970.3	971.5	972.7	971.4	967.6	963.7	959.9	956.1
130°	1021.5	1022.1	1022.8	1023.5	1024.1	1024.8	1023.0	1018.6	1014.3	1009.9	1005.5
132.5°	1076.1	1077.6	1077.5	1077.3	1077.2	1077.1	1075.2	1071.7	1068.1	1064.6	1061.0
135°	1154.5	1154.8	1154.1	1153.5	1152.8	1152.1	1149.9	1146.2	1142.6	1138.9	1135.2
137.5°	1230.5	1230.8	1229.9	1229.0	1228.2	1227.3	1225.3	1222.3	1219.3	1216.3	1213.3
140°	1281.4	1281.4	1279.8	1278.1	1276.4	1274.7	1272.4	1269.4	1266.4	1263.3	1260.3
142.5°	1327.5	1327.3	1326.1	1325.0	1323.8	1322.7	1320.6	1317.6	1314.6	1311.6	1308.6
145°	1397.8	1397.5	1395.5	1393.5	1391.5	1389.5	1387.3	1384.9	1382.6	1380.3	1377.9
147.5°	1459.2	1458.4	1457.1	1455.7	1454.4	1453.1	1451.0	1448.2	1445.3	1442.5	1439.7
150°	1498.0	1497.0	1495.7	1494.3	1493.0	1491.6	1490.0	1488.0	1486.0	1483.9	1481.9
152.5°	1536.9	1535.6	1534.0	1532.4	1530.8	1529.2	1527.4	1525.3	1523.3	1521.3	1519.3
155°	1586.1	1584.4	1583.4	1582.4	1581.4	1580.4	1579.4	1578.4	1577.4	1576.4	1575.4
157.5°	1631.3	1629.1	1628.5	1627.9	1627.3	1626.7	1626.0	1625.4	1624.7	1624.0	1623.3
160°	1658.8	1656.8	1656.5	1656.1	1655.8	1655.5	1655.0	1654.3	1653.6	1653.0	1652.3
162.5°	1683.2	1680.9	1680.6	1680.3	1679.9	1679.6	1679.4	1679.2	1679.1	1679.0	1678.8
165°	1714.9	1712.6	1712.6	1712.6	1712.6	1712.6	1712.8	1713.1	1713.4	1713.8	1714.1
167.5°	1741.2	1738.8	1738.9	1739.0	1739.0	1739.1	1739.6	1740.6	1741.6	1742.6	1743.6
170°	1755.6	1753.3	1753.6	1754.0	1754.3	1754.6	1755.3	1756.3	1757.3	1758.3	1759.3
172.5°	1766.5	1764.1	1764.5	1764.8	1765.2	1765.5	1766.2	1767.2	1768.2	1769.2	1770.2
175°	1778.3	1775.9	1776.6	1777.2	1777.9	1778.6	1779.4	1780.4	1781.4	1782.4	1783.4
177.5°	1784.4	1782.8	1783.4	1783.9	1784.4	1785.0	1785.7	1786.5	1787.3	1788.1	1788.9
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



TEST NUMBER: P331782

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	657.6	658.1	661.7	663.4	666.6	667.9	669.4	669.0	669.0	669.7	674.8
5°	659.0	663.5	670.3	676.9	683.3	688.7	692.4	696.0	697.4	703.9	709.8
7.5°	656.6	665.0	676.2	686.3	698.3	707.7	715.5	722.6	727.4	737.0	746.8
10°	653.5	665.3	678.0	691.0	707.6	720.1	732.8	742.6	745.7	760.0	768.2
12.5°	647.3	663.1	679.3	696.1	712.3	729.5	743.5	753.3	764.5	777.3	792.4
15°	638.1	656.2	677.4	698.9	722.1	743.0	758.0	775.0	787.3	801.4	814.6
17.5°	624.8	648.2	675.0	700.0	726.8	749.2	769.9	786.2	794.8	802.9	804.8
20°	614.2	639.4	671.0	700.5	727.3	753.2	773.7	787.3	789.6	789.8	777.8
22.5°	602.8	631.3	664.3	694.5	726.6	755.4	771.3	777.1	768.1	752.7	729.4
25°	581.7	614.7	653.1	687.6	722.6	749.8	755.3	745.1	713.5	680.3	638.3
27.5°	558.9	596.0	637.1	675.5	712.8	729.7	717.9	681.0	624.2	574.7	514.8
30°	542.2	583.8	624.2	667.1	701.7	708.9	681.9	627.6	561.3	486.8	427.0
32.5°	523.1	566.7	611.1	655.5	684.4	677.3	632.7	565.8	488.1	414.8	358.4
35°	495.9	540.8	588.8	633.3	651.7	621.0	554.2	467.2	387.7	319.4	280.5
37.5°	464.4	513.4	563.2	604.1	602.8	551.7	460.7	370.9	304.1	263.6	236.0
40°	442.0	491.6	545.4	579.9	565.2	498.6	400.0	315.3	266.4	234.2	214.0
42.5°	420.6	470.3	523.8	551.2	525.5	443.7	345.5	279.1	238.8	213.7	197.3
45°	384.1	436.6	486.1	501.3	455.4	365.3	279.4	231.2	204.4	185.8	174.5
47.5°	348.4	400.1	445.3	445.5	383.5	296.2	235.7	200.1	177.2	162.8	154.6
50°	326.6	375.7	413.6	407.7	337.3	263.5	210.8	180.1	161.1	149.9	141.3
52.5°	302.1	349.7	382.6	365.8	298.2	231.9	188.4	162.7	146.9	137.2	129.5
55°	266.4	308.7	331.9	306.4	243.3	192.9	159.2	139.0	127.2	119.0	112.4
57.5°	231.4	266.3	280.8	251.2	200.4	159.9	134.7	119.5	107.8	101.9	98.5
60°	209.4	239.2	249.4	216.7	174.2	139.9	119.3	105.2	96.5	92.7	89.3
62.5°	187.8	212.1	216.3	186.4	151.9	122.5	104.7	92.8	87.1	83.4	80.2
65°	155.8	173.3	171.3	147.2	120.2	97.2	84.3	77.0	72.7	67.5	61.8
67.5°	128.3	139.0	132.5	114.5	91.7	75.6	67.1	61.6	56.2	51.3	50.0
70°	110.8	117.0	110.2	93.6	75.2	63.4	56.6	50.0	46.8	45.7	43.6
72.5°	94.1	96.3	88.9	74.7	61.2	52.5	45.8	42.2	40.4	39.5	38.2
75°	70.6	69.1	62.7	51.6	42.5	36.6	34.5	33.2	32.0	31.1	30.4
77.5°	49.6	47.3	41.6	34.3	29.6	26.8	25.5	24.8	24.3	23.8	23.1
80°	37.3	35.7	30.0	24.5	22.5	21.1	20.4	19.5	19.5	19.1	18.4
82.5°	27.3	25.5	20.5	18.0	16.9	16.0	15.5	15.0	14.8	14.9	14.4
85°	14.3	11.6	10.2	9.8	9.1	8.6	8.9	8.4	8.4	8.4	8.2
87.5°	5.5	5.4	6.0	6.6	7.9	9.4	10.7	12.2	13.8	13.5	13.6
90°	5.5	9.5	13.6	17.6	23.3	30.7	38.0	45.4	52.8	52.1	51.4
92.5°	29.8	32.7	35.7	38.6	41.0	42.7	44.5	46.2	47.9	48.1	48.2
95°	81.7	85.1	88.4	91.8	93.8	94.5	95.1	95.8	96.5	96.5	96.5
97.5°	146.2	149.1	152.1	155.0	157.1	158.4	159.7	160.9	162.2	162.2	162.2
100°	194.1	196.8	199.5	202.2	204.0	205.0	206.0	207.0	208.0	208.0	208.0
102.5°	244.3	246.4	248.5	250.7	252.4	253.7	254.9	256.2	257.5	257.8	258.0
105°	325.1	326.1	327.1	328.1	329.0	329.7	330.3	331.0	331.7	332.3	333.0
107.5°	408.2	409.7	411.2	412.6	413.4	413.4	413.4	413.4	413.4	413.6	413.9
110°	461.8	463.8	465.8	467.8	468.9	468.9	468.9	468.9	468.9	468.9	468.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	519.7	521.7	523.7	525.7	526.6	526.3	526.1	525.8	525.5	524.7	523.9
115°	605.0	607.0	609.1	611.1	611.7	611.1	610.4	609.7	609.1	608.7	608.4
117.5°	690.7	693.4	696.1	698.8	699.2	697.3	695.4	693.5	691.7	690.9	690.1
120°	747.4	750.1	752.8	755.5	755.5	752.8	750.1	747.4	744.7	744.7	744.7
122.5°	799.8	803.0	806.2	809.5	810.1	808.3	806.4	804.5	802.6	801.8	801.0
125°	880.4	883.4	886.4	889.5	890.5	889.5	888.5	887.5	886.4	885.4	884.4
127.5°	959.9	963.7	967.6	971.4	972.7	971.5	970.3	969.1	967.9	966.6	965.4
130°	1009.9	1014.3	1018.6	1023.0	1024.8	1024.1	1023.5	1022.8	1022.1	1021.5	1020.8
132.5°	1064.6	1068.1	1071.7	1075.2	1077.1	1077.2	1077.3	1077.5	1077.6	1076.1	1074.7
135°	1138.9	1142.6	1146.2	1149.9	1152.1	1152.8	1153.5	1154.1	1154.8	1154.5	1154.1
137.5°	1216.3	1219.3	1222.3	1225.3	1227.3	1228.2	1229.0	1229.9	1230.8	1230.5	1230.2
140°	1263.3	1266.4	1269.4	1272.4	1274.7	1276.4	1278.1	1279.8	1281.4	1281.4	1281.4
142.5°	1311.6	1314.6	1317.6	1320.6	1322.7	1323.8	1325.0	1326.1	1327.3	1327.5	1327.8
145°	1380.3	1382.6	1384.9	1387.3	1389.5	1391.5	1393.5	1395.5	1397.5	1397.8	1398.2
147.5°	1442.5	1445.3	1448.2	1451.0	1453.1	1454.4	1455.7	1457.1	1458.4	1459.2	1459.9
150°	1483.9	1486.0	1488.0	1490.0	1491.6	1493.0	1494.3	1495.7	1497.0	1498.0	1499.0
152.5°	1521.3	1523.3	1525.3	1527.4	1529.2	1530.8	1532.4	1534.0	1535.6	1536.9	1538.1
155°	1576.4	1577.4	1578.4	1579.4	1580.4	1581.4	1582.4	1583.4	1584.4	1586.1	1587.8
157.5°	1624.0	1624.7	1625.4	1626.0	1626.7	1627.3	1627.9	1628.5	1629.1	1631.3	1633.6
160°	1653.0	1653.6	1654.3	1655.0	1655.5	1655.8	1656.1	1656.5	1656.8	1658.8	1660.8
162.5°	1679.0	1679.1	1679.2	1679.4	1679.6	1679.9	1680.3	1680.6	1680.9	1683.2	1685.5
165°	1713.8	1713.4	1713.1	1712.8	1712.6	1712.6	1712.6	1712.6	1712.6	1714.9	1717.3
167.5°	1742.6	1741.6	1740.6	1739.6	1739.1	1739.0	1739.0	1738.9	1738.8	1741.2	1743.5
170°	1758.3	1757.3	1756.3	1755.3	1754.6	1754.3	1754.0	1753.6	1753.3	1755.6	1758.0
172.5°	1769.2	1768.2	1767.2	1766.2	1765.5	1765.2	1764.8	1764.5	1764.1	1766.5	1768.8
175°	1782.4	1781.4	1780.4	1779.4	1778.6	1777.9	1777.2	1776.6	1775.9	1778.3	1780.6
177.5°	1788.1	1787.3	1786.5	1785.7	1785.0	1784.4	1783.9	1783.4	1782.8	1784.4	1786.1
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	653.7	653.7	653.7	653.7	653.7	653.7	653.7
2.5°	676.6	679.0	680.1	680.1	681.4	680.8	680.3
5°	715.5	719.8	720.8	724.8	727.8	726.9	727.3
7.5°	754.2	761.1	768.0	771.1	771.6	773.4	774.1
10°	778.0	783.7	794.3	792.8	800.7	805.3	797.8
12.5°	800.9	808.6	816.0	818.0	822.5	824.0	821.0
15°	821.6	825.7	826.1	825.0	826.4	825.2	820.9
17.5°	802.3	795.6	782.2	775.8	770.8	763.3	760.3
20°	770.3	750.7	728.0	718.9	708.3	687.4	692.4
22.5°	701.2	679.0	656.2	629.7	617.0	597.2	596.0
25°	593.8	555.4	513.1	483.6	466.3	446.6	437.9
27.5°	461.7	413.3	378.7	361.2	345.2	329.6	328.9
30°	374.8	338.5	311.7	296.7	286.9	280.3	281.7
32.5°	315.9	291.0	272.9	260.5	253.3	248.3	248.2
35°	258.3	241.2	229.6	224.4	219.2	215.6	215.8
37.5°	221.0	210.8	204.3	198.6	195.3	193.5	192.5
40°	201.9	193.5	188.5	185.1	182.4	179.9	179.4
42.5°	186.9	179.9	174.9	172.2	169.7	167.9	167.5
45°	165.8	160.1	155.6	152.6	151.5	149.9	149.9
47.5°	147.5	141.9	138.4	136.5	134.6	133.5	133.5
50°	135.2	130.8	127.7	126.5	124.9	124.3	124.0
52.5°	124.1	120.8	118.6	117.8	117.1	116.3	116.4
55°	109.0	107.2	106.3	105.6	104.5	103.1	104.0
57.5°	96.4	94.8	92.4	90.2	89.2	88.2	88.6
60°	87.5	84.3	81.1	78.6	77.9	75.9	75.9
62.5°	76.2	71.7	67.8	66.4	65.7	64.8	64.6
65°	58.6	56.8	55.9	55.0	54.5	54.5	54.1
67.5°	48.6	47.8	46.8	46.6	46.2	46.0	45.9
70°	42.9	42.0	41.6	41.3	40.9	41.1	40.4
72.5°	37.5	36.8	36.7	36.1	35.8	35.8	35.3
75°	29.5	29.5	29.3	29.1	28.6	28.4	28.6
77.5°	22.7	22.8	22.4	22.3	22.3	22.3	22.1
80°	18.2	18.4	18.2	17.9	17.7	17.9	17.7
82.5°	14.4	14.0	14.0	13.9	13.9	13.8	13.7
85°	8.2	8.4	8.2	8.0	8.0	8.0	8.2
87.5°	13.2	13.1	13.1	13.1	13.2	13.3	13.2
90°	50.8	50.1	49.9	50.3	50.6	50.9	51.3
92.5°	48.3	48.5	48.6	48.6	48.7	48.8	48.8
95°	96.5	96.5	96.1	95.5	94.8	94.1	93.5
97.5°	162.2	162.2	162.2	162.1	162.0	162.0	161.9
100°	208.0	208.0	207.9	207.5	207.2	206.9	206.5
102.5°	258.3	258.6	258.5	258.2	257.9	257.5	257.2
105°	333.7	334.3	334.7	334.7	334.7	334.7	334.7
107.5°	414.2	414.4	413.8	412.3	410.7	409.2	407.6
110°	468.9	468.9	468.3	467.3	466.3	465.3	464.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	523.1	522.3	521.5	520.8	520.1	519.3	518.6
115°	608.0	607.7	607.0	606.0	605.0	604.0	603.0
117.5°	689.3	688.5	687.5	686.5	685.5	684.5	683.5
120°	744.7	744.7	744.2	743.2	742.2	741.2	740.2
122.5°	800.2	799.4	798.6	797.9	797.2	796.4	795.7
125°	883.4	882.4	881.8	881.4	881.1	880.8	880.4
127.5°	964.2	963.0	961.9	960.8	959.7	958.7	957.6
130°	1020.1	1019.4	1018.4	1017.1	1015.8	1014.4	1013.1
132.5°	1073.2	1071.7	1070.4	1069.4	1068.3	1067.2	1066.1
135°	1153.8	1153.5	1152.8	1151.8	1150.8	1149.8	1148.8
137.5°	1230.0	1229.7	1228.9	1227.6	1226.2	1224.9	1223.5
140°	1281.4	1281.4	1280.8	1279.4	1278.1	1276.7	1275.4
142.5°	1328.1	1328.3	1327.8	1326.5	1325.1	1323.8	1322.4
145°	1398.5	1398.8	1398.3	1397.0	1395.7	1394.3	1393.0
147.5°	1460.6	1461.4	1461.1	1459.8	1458.5	1457.3	1456.0
150°	1500.0	1501.0	1501.0	1500.0	1499.0	1498.0	1497.0
152.5°	1539.4	1540.7	1540.7	1539.4	1538.1	1536.9	1535.6
155°	1589.5	1591.1	1591.5	1590.5	1589.5	1588.5	1587.5
157.5°	1635.9	1638.2	1638.5	1636.9	1635.3	1633.7	1632.1
160°	1662.8	1664.8	1665.2	1663.8	1662.5	1661.2	1659.8
162.5°	1687.8	1690.0	1690.4	1688.8	1687.2	1685.6	1683.9
165°	1719.6	1722.0	1722.3	1720.6	1719.0	1717.3	1715.6
167.5°	1745.9	1748.2	1748.5	1746.8	1745.0	1743.3	1741.5
170°	1760.3	1762.7	1762.8	1760.8	1758.8	1756.8	1754.8
172.5°	1771.2	1773.5	1773.7	1771.7	1769.7	1767.7	1765.7
175°	1782.9	1785.3	1785.5	1783.4	1781.4	1779.4	1777.4
177.5°	1787.7	1789.3	1789.3	1787.7	1786.1	1784.4	1782.8
180°	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5	1786.5

(END OF REPORT)